UTokyo Amgen Scholars Program 2027

Host Laboratory and Research Topic

Name of Faculty Member	Sho Yagishita, Professor
Name of Graduate School / Institute	Research Center for Advanced Science and Technology
Research Topic & Description	We study the synaptic mechanisms underlying memory formation and the development of psychiatric disorders. Using two-photon microscopy combined with a spatial light modulator (SLM), we manipulate the activity of dozens of synapses in brain slices to replicate in vivo neuronal activity patterns. Through this approach, we aim to uncover how such activity patterns are converted into memory.
Academic Requirements & Expectations	**1) Field(s) of Study**
	Molecular biology, neuroscience, and/or optics.
	2) Knowledge/ Skill/ Proficiency
	Basic skills in molecular biology, microscopy, and/or programming.
	3) Academic Background and Research Experience
	Strong motivation to understand brain function and to engage in creative research.
Website & Relevant Information	https://sites.google.com/view/yagishita-lab
Campus / Location	Komaba II
Area of Research	Neuroscience Physiological Science